



Request Segmentation

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Request Segmentation Description



Overview

The request segmentation scenario describes the proposed method of Data Server handling of a large request. For a request to be segmented either the volume of the ordered data or the number of the ordered files must exceed a specified threshold. Such request will be segmented on file boundaries. Request segmentation will be automated in Release B.

Assumptions

- The system is operating in nominal (operational) mode, with all equipment operational.

Request Segmentation Description



Scenario

- A large request is flagged by volume or number of files.
- Requestor of the electronic transfer of a segmented request is notified of request segmentation
- Requestor is notified separately (normal request notification) of each electronically transferred request segment
- Requestor may cancel the request at any point
- Hard media distribution of a segmented request is handled as a normal request

Heritage

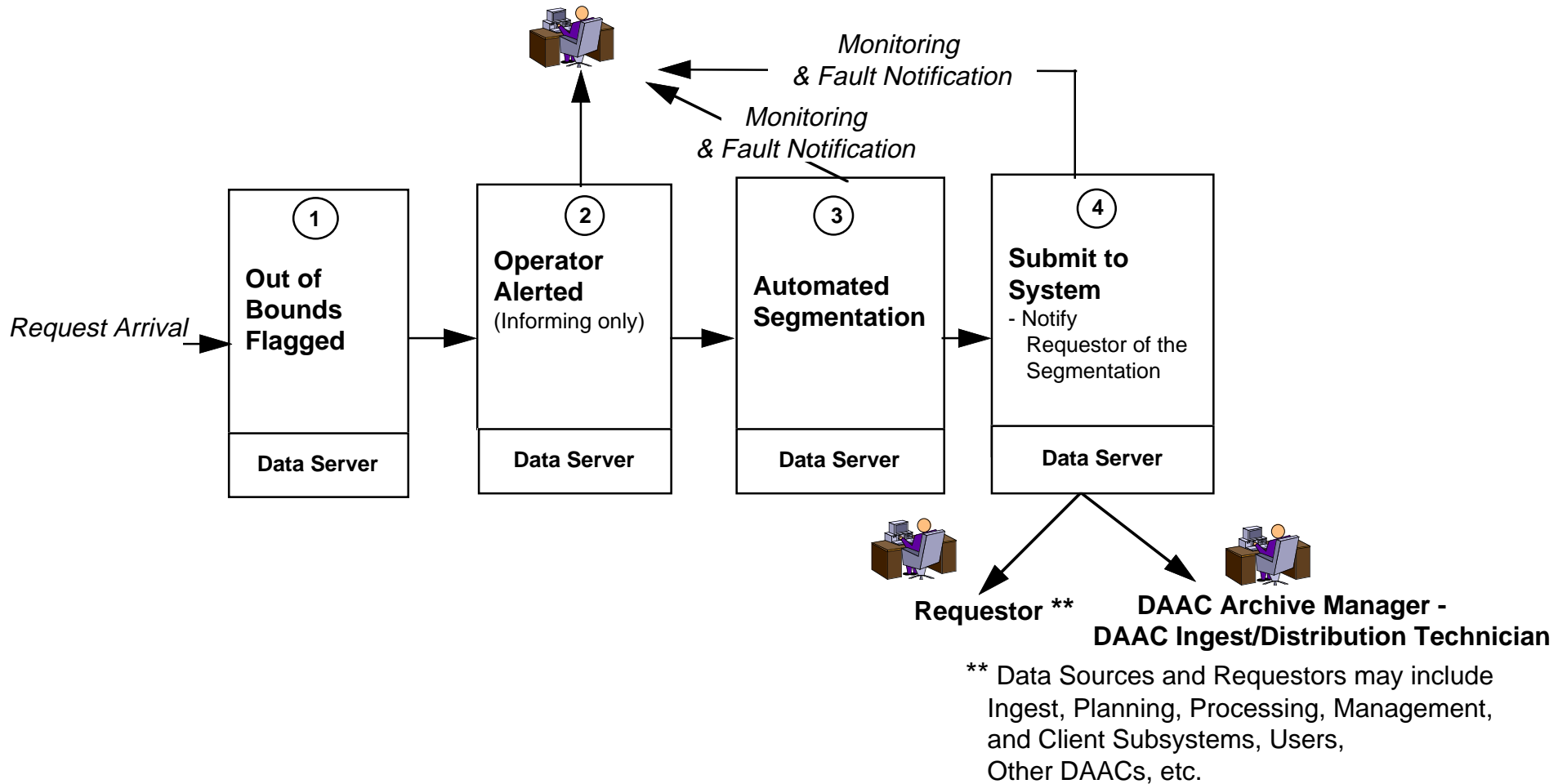
- Large requests are flagged by volume or number of files (CDR-A)
- Request Segmentation will be automated in Release B (IDR-B)
- Proposed method: segment by file
 - Based on Statistics Collecting and Reporting System
 - User Services at GSFC
 - Modeling Projection

Request Segmentation Activities

Functional Flow



DAAC Archive Manager - DAAC Ingest/Distribution Technician



Request Segmentation Activities

Points of View



DAAC Ingest/Distribution
Technician



DAAC Operations View

Alert for a
segmented
request
(informing only)



ECS System

Segment Request

DAAC Archive Manager



DAAC Operation View

Review alert and
associated status
and faults.

SMC Resource Controller



SMC Operations View

System-wide
request monitoring/
review

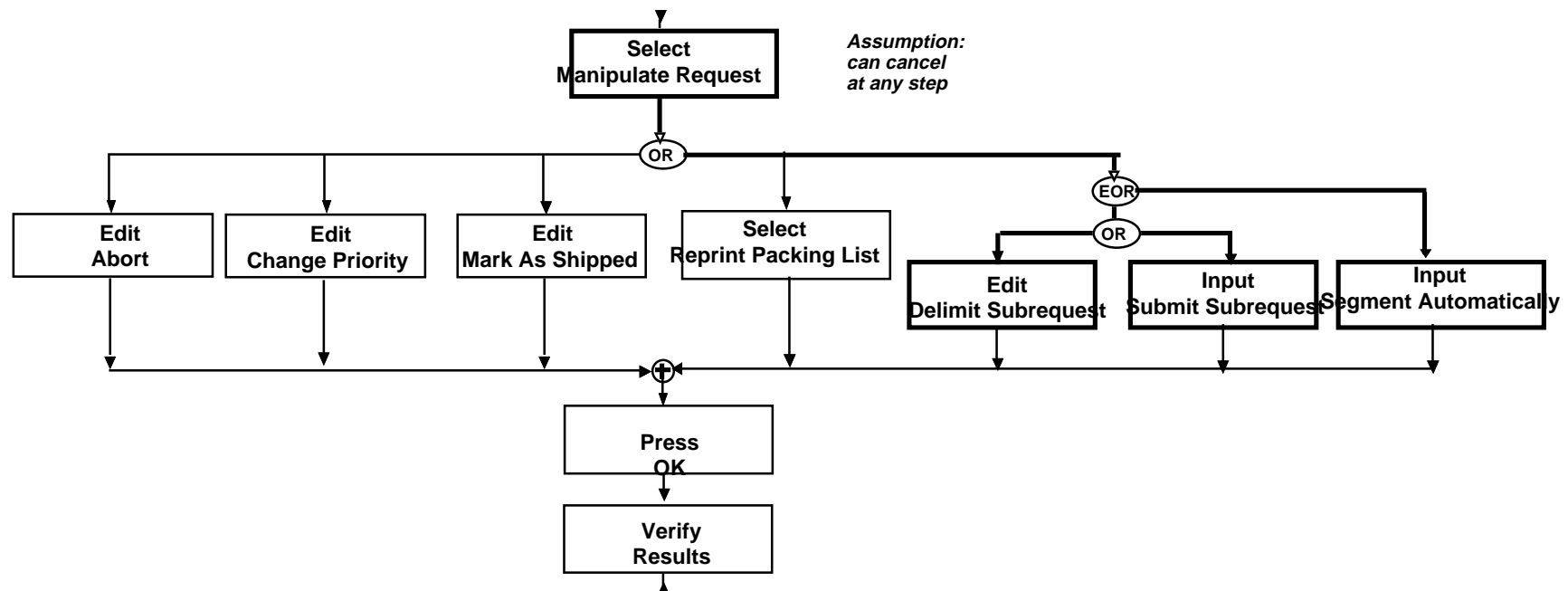
Request Segmentation Workflow (Proposed)



Activity - Request Segmentation Information

Role - DAAC Ingest/Distribution
Technician
- DAAC Archive Manager

Data Server Data Distribution





Request Segmentation - Data Activity

Distribution Operator Function	Data Element	Operator Interactions
Manipulate Request	View Individual Requests Abort Change Priority Mark as Shipped Reprint Packing List Delimit Subrequest Submit Subrequest Segment Automatically	Display Edit Edit Edit Display Edit Input Input